...nments Roads and ...
... Ward No-14, Bagalg

BOQ Item No	Description Of item of work	Nos	Measurements: Length	Breath	Depth	Sub Qty	Total Qty	Unit
1	3	4	5	6	7	8	9	10	11
measurement continued on:-		11/03/20						

5 KSRRB M2200-5.12. Providing and laying Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.7 cum and fine aggregates @ 0.47 cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008. i) Upto 5 m height.

QTY VIDE PREMEASUREMENT RECORDED IN IN PNO

CC DRAIN-SIDE WALLS

ROAD-3-BS	2	2	49.00	0.60	0.15	28.175
ROAD-7 LS	1	2	28.70	0.60	0.15	17.640
ROAD-7 RS	1	2	34.00	0.60	0.15	5.166
ROAD-8 RS	1	2	48.00	0.60	0.15	6.120
						8.640
			Total Qty			65.741

Limiting Total Qty(UPTO 125% OF TQ=125%*50.40=63.00CUM) 63.000 63.000 Cum

13 Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.

NEW ROAD FORMATION

ROAD-4	1	30.00	5.45 + 5.20 / 2	0.150	23.963
	1	14.00	5.20 + 4.90 / 2	0.150	10.605
DEDUCTION DUE TO CD	-1	1.20	6.00 + 6.00 / 2	0.150	-1.080
ROAD-5	1	30.00	4.50 + 4.40 / 2	0.150	20.025
	1	30.00	4.40 + 4.15 / 2	0.150	19.238
	1	15.00	4.15 + 4.50 / 2	0.150	9.731
ROAD-8	1	26.00	6.60 + 6.40 / 2	0.150	25.350
	1	12.00	6.40 + 5.90 / 2	0.150	11.070
	1	3.30	5.50 + 5.50 / 2	0.150	2.723
ROAD-11	1	15.00	5.80 + 4.70 / 2	0.150	11.813
	1	30.00	4.70 + 4.50 / 2	0.150	20.700
	1	30.00	4.50 + 4.15 / 2	0.150	19.463
	1	30.00	4.15 + 4.60 / 2	0.150	19.688

Total Qty(UPTO 125% OF TQ=125%*159.90=198.75CUM) 193.286 193.286 Cum

Checked & Recommended

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Improvements ... in Ward NO-14, Bagal...

BOQ Item No	Description Of item of work	Nos	Measurements					
			Length	Breath	Depth	Sub Qty	Total Qty	Unit
1	3	4 5	6	7	8	9	10	11
14	KSRRB M600-1.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1 ,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a hatching plant, transported to site,laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5 -do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.							
	CC ROAD							
	ROAD-1	1	30.00	4.80 + 4.30 / 2		0.120	16.380	
		1	30.00	4.30 + 3.55 / 2		0.120	14.130	
		1	41.00	3.55 + 3.80 / 2		0.150	22.601	
	ROAD-12	1	10.80	4.50 + 4.90 / 2		0.100	5.076	
	ROAD-13		30.00	3.00 + 3.10 / 2		0.120	10.980	
		1	16.00	3.10 + 3.00 / 2		0.100	4.880	
				Total Qty			74.047	74.047 Cum

Checked the M.B.

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Assistant Engineer-14 14/03/20

Assistant Executive Engineer
T.Dasarahalli Sub-Division
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measurement continued on:- 16/03/25

1	3	4	5	6	7	8	9	10	11
				Length	Breath	Depth	Sub Qty	Total Qty	Unit

7 Removing and resetting of footpath slab. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.

DRAIN

ROAD-2-LS	1	1	121.00	0.90	108.900
ROAD-2-RS	1	1	151.00	0.90	135.900
ROAD-10-RS	1	1	10.00	0.90	9.000
				Total Qty	253.800

253.800 Sqm

8 KSRB 15.2.2 Providing ruled pointing 20 mm deep to stone slab with cement mortar 1:3, 20mm deep, after raking joints nicely lining, including cost of materials, labour, curing complete as per specifications. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.

CC DRAIN

ROAD-2-LS	1	1	80.00	0.90	72.000
				Total Qty	72.000

72.000 Sqm

9 Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges , curing and concrtee finished surface on both sides etc, and complete as per the directions of Enginner in charges

CC DRAIN-RAFT

ROAD-2-BS	2	1	14.00	0.90	25.200
ROAD-3-BS	2	1	49.00	0.90	88.200
ROAD-7 LS	1	1	28.70	0.90	25.830
ROAD-7 RS	1	1	34.00	0.90	30.600
ROAD-8 RS	1	1	48.00	0.90	43.200
				Total Qty	213.030

213.030 Sqm

15 KSRRB M400 Providing, laying, spreading and compacting Crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No.406. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.

NEW ROAD FORMATION

ROAD-4	1	30.00	5.45	+ 5.20 / 2	0.225	35.944
	1	14.00	5.20	+ 4.90 / 2	0.225	15.908
DEDUCTION DUE TO CD	-1	1.20	6.00	+ 6.00 / 2	0.225	-1.620
ROAD-5	1	30.00	4.50	+ 4.40 / 2	0.225	30.038
	1	30.00	4.40	+ 4.15 / 2	0.225	28.856
	1	15.00	4.15	+ 4.50 / 2	0.225	14.597
ROAD-6	1	26.00	6.60	+ 6.40 / 2	0.225	38.025
	1	12.00	6.40	+ 5.90 / 2	0.225	16.605
	1	3.30	5.50	+ 5.50 / 2	0.225	4.084
ROAD-11	1	15.00	5.80	+ 4.70	0.225	17.719

Checked

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... Ward NO-14, Bagalg...

BOQ Item No	Description Of item of work	Nos		Measurements Length	Breath	Depth	Sub Qty	Total Qty	Unit
1	3	4	5	6	7	8	9	10	11
		1		30.00	(4.70 + 4.50)/2	0.225	31.050		
		1		30.00	(4.50 + 4.15)/2	0.225	29.194		
	ROAD-10BWSSB CUT PORTION	1		34.00	(4.15 + 4.60)/2	0.300	39.375		
		1		32.00	(1.50 + 1.50)/2	0.300	15.300		
		1		30.00	(1.50 + 1.50)/2	0.300	14.400		
		1		30.00	(1.50 + 1.50)/2	0.300	13.500		
		1		30.00	(1.50 + 1.50)/2	0.300	13.500		
		1		30.00	(1.50 + 1.50)/2	0.300	13.500		
		1		35.00	(1.50 + 1.50)/2	0.300	15.750		
		1		42.00	(1.50 + 1.50)/2	0.300	18.900		
		1		20.00	(1.50 + 1.50)/2	0.300	9.000		
	CC ROAD								
	ROAD-1	1		30.00	(4.80 + 4.30)/2	0.100	13.650		
		1		30.00	(4.30 + 3.55)/2	0.100	11.775		
		1		41.00	(3.55 + 3.80)/2	0.100	15.068		
	ROAD-12	1		10.80	(4.50 + 4.90)/2	0.100	5.076		
	ROAD-13	1		30.00	(3.00 + 3.10)/2	0.100	9.150		
		1		16.00	(3.10 + 3.00)/2	0.100	4.880		
	Total Qty(UPTO 125% OF TQ=125%*468.78=585.975CUM)						473.222	473.222	Cum

Checked

16/03/20

Assistant Engineer-14 16/3/20

Assistant Executive Engineer
T Dasarahalli Sub- Division
BBMP
Bengaluru-560073

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SOR Item No	Description Of item of work	Nos	Measurements Length	Breath	Depth	Sub Qty	Total Qty	Unit
1	3	4 / 5	6	7	8	9	10	11
	Measurement continued on:-	18 / 3	20					

16 Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to18 383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades,textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.

CC ROAD

ROAD-1	1	30.00	(4.80 + 4.30)/2	0.160	21.840	
	1	30.00	(4.30 + 3.55)/2	0.160	18.840	
	1	41.00	(3.55 + 3.80)/2	0.160	24.108	
ROAD-12	1	10.80	(4.50 + 4.90)/2	0.160	8.122	
ROAD-13	1	30.00	(3.00 + 3.10)/2	0.160	14.640	
	1	16.00	(3.10 + 3.00)/2	0.160	7.808	
			Total Qty		95.358	95.358 Cum

17 KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications. Clause 501 of MORTH V revision

ROAD-10	1	30.00	(7.00 + 6.20)/2		198.000
	1	30.00	(6.20 + 6.20)/2		186.000
	1	30.00	(6.20 + 7.00)/2		198.000
	1	30.00	(7.00 + 6.90)/2		208.500
	1	30.00	(6.90 + 6.90)/2		207.000
	1	30.00	(6.90 + 5.10)/2		180.000
BWSSB CUT PORTION	1	34.00	(5.10 + 5.20)/2		175.100
	1	32.00	(5.20 + 4.70)/2		158.400
	1	30.00	(4.70 + 5.80)/2		157.500
	1	30.00	(5.80 + 5.10)/2		163.500

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			Breath			Depth	Sub Qty	Total Qty	Unit
	1	30.00	1.50 + 1.50 / 2				45.000		
	1	30.00	1.50 + 1.50 / 2				45.000		
	1	35.00	1.50 + 1.50 / 2				52.500		
	1	42.00	1.50 + 1.50 / 2				63.000		
	1	20.00	1.50 + 1.50 / 2				30.000		
NEW ROAD FORMATION ROAD-4	1	30.00	5.45 + 5.20 / 2				159.750		
	1	14.00	5.20 + 4.90 / 2				70.700		
DEDUCTION DUE TO CD	-1	1.20	6.00 + 6.00 / 2				-7.200		
ROAD-5	1	30.00	4.50 + 4.40 / 2				133.500		
	1	30.00	4.40 + 4.15 / 2				128.250		
	1	15.00	4.15 + 4.50 / 2				64.875		
ROAD-8	1	26.00	6.60 + 6.40 / 2				169.000		
	1	12.00	6.40 + 5.90 / 2				73.800		
	1	3.30	5.50 + 5.50 / 2				18.150		
ROAD-9	1	15.00	5.80 + 4.70 / 2				78.750		
	1	30.00	4.70 + 4.50 / 2				138.000		
	1	30.00	4.50 + 4.15 / 2				129.750		
	1	30.00	4.15 + 4.60 / 2				131.250		
Total Qty							2845.575		
Limiting Total Qty(UPTO 125% OF TQ=125%*1839.00=2298.75SQM)							2298.750	2298.750	Cum

KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. Clause 503 of MORTH V revision. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.

ROAD-10	1	30.00	7.00 + 6.20 / 2				198.000		
	1	30.00	6.20 + 6.20 / 2				186.000		
	1	30.00	6.20 + 7.00 / 2				198.000		
	1	30.00	7.00 + 6.90 / 2				208.500		
	1	30.00	6.90 + 6.90 / 2				207.000		

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			Breath 7			Depth 8	Sub Qty 9	Total Qty 10	Unit 11
BWSSB CUT PORTION	1	30.00	6.90	+	5.10		180.000		
			2						
	1	34.00	5.10	+	5.20		175.100		
			2						
	1	32.00	5.20	+	4.70		158.400		
			2						
	1	30.00	4.70	+	5.80		157.500		
			2						
	1	30.00	5.80	+	5.10		163.500		
			2						
	1	30.00	5.10	+	4.00		136.500		
			2						
	1	35.00	4.00	+	4.80		154.000		
			2						
	1	42.00	4.80	+	5.20		210.000		
			2						
	1	20.00	5.20	+	5.60		108.000		
			2						
NEW ROAD FORMATION									
ROAD-4	1	30.00	5.45	+	5.20		159.750		
			2						
	1	14.00	5.20	+	4.90		70.700		
			2						
DEDUCTION DUE TO CD	-1	1.20	6.00	+	6.00		-7.200		
			2						
ROAD-5	1	30.00	4.50	+	4.40		133.500		
			2						
	1	30.00	4.40	+	4.15		128.250		
			2						
	1	15.00	4.15	+	4.50		64.875		
			2						
ROAD-8	1	26.00	6.60	+	6.40		169.000		
			2						
	1	12.00	6.40	+	5.90		73.800		
			2						
	1	3.30	5.50	+	5.50		18.150		
			2						
ROAD-11	1	15.00	5.80	+	4.70		78.750		
			2						
	1	30.00	4.70	+	4.50		138.000		
			2						
	1	30.00	4.50	+	4.15		129.750		
			2						
	1	30.00	4.15	+	4.60		131.250		
			2						
ROAD FROM 2-7	1	37.40	4.80	+	5.30		188.870		
			2						
	1	30.00	5.30	+	4.45		146.250		
			2						
	1	30.00	4.45	+	4.70		137.250		
			2						
	1	35.00	4.70	+	4.50		161.000		

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No.	Description of work			Length	Breath	Depth	Sub Qty	Total Qty	Unit
	3	4	5	6	7	8	9	10	11
	Carried forward from previous page								
	Measurement continued on:- 22/03/25								
	KSRRB M800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications,MORTH Chapter 8. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.								
	KERB STONE PAINTING								
	ROAD-1	1	1	121.00	0.35		42.350		
	ROAD-2 LS	1	1	151.00	0.35		52.850		
	ROAD-2 RS	1	1	10.00	0.35		3.500		
	ROAD-3 BS	1	1	121.00	0.35		42.350		
	ROAD-4 STARTING POINT	1	1	151.00	0.35		52.850		
	ROAD-7 LS	1	1	10.00	0.35		3.500		
	ROAD-7 RS	1	1	121.00	0.35		42.350		
	ROAD-8-RS	1	1	151.00	0.35		52.850		
	ROAD-8-LS	1	1	10.00	0.35		3.500		
	ROAD-9-LS	1	1	121.00	0.35		42.350		
	ROAD-13-BS	1	1	151.00	0.35		52.850		
					Total Qty		391.300	391.300	Sqm
22	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications.Clause 507 of MORTH V revision as per IRC SP-53-2015. -do- using 40-60 TPH capacity HMP with mechanical paver grading II(30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.								
	ROAD-10	1	30.00	(7.00 + 6.20)/2	0.040		7.920		
		1	30.00	(6.20 + 6.20)/2	0.040		7.440		
		1	30.00	(6.20 + 7.00)/2	0.040		7.920		
		1	30.00	(7.00 + 6.90)/2	0.040		8.340		
		1	30.00	(6.90 + 6.90)/2	0.040		8.280		
		1	30.00	(6.90 + 5.10)/2	0.040		7.200		
	BWSSB CUT PORTION	1	34.00	(5.10 + 5.20)/2	0.040		7.004		
		1	32.00	(5.20 + 4.70)/2	0.040		6.336		
		1	30.00	(4.70 + 5.80)/2	0.040		6.300		
		1	30.00	(5.80 + 5.10)/2	0.040		6.540		
		1	30.00	(5.10 + 4.00)/2	0.040		5.460		
		1	35.00	(4.00 + 4.80)/2	0.040		6.160		
		1	42.00	(4.80 + 5.20)/2	0.040		8.400		

Checked with MB 22/3

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Improvements Roads under ... in Ward No-14, Bagalg...

BOQ Item No	Description Of item of work	Nos	Measurements: Length	Breath	Depth	Sub Qty	Total Qty	Unit
1	3	4 5	6	7	8	9	10	11
		1	20.00	(5.20 + 5.60)/2	0.040	4.320		
	NEW ROAD FORMATION							
	ROAD-4	1	30.00	(5.45 + 5.20)/2	0.040	6.390		
		1	14.00	(5.20 + 4.90)/2	0.040	2.828		
	DEDUCTION DUE TO CD	-1	1.20	(6.00 + 6.00)/2	0.040	-0.288		
	ROAD-5	1	30.00	(4.50 + 4.40)/2	0.040	5.340		
		1	30.00	(4.40 + 4.15)/2	0.040	5.130		
		1	15.00	(4.15 + 4.50)/2	0.040	2.595		
	ROAD-8	1	26.00	(6.60 + 6.40)/2	0.040	6.760		
		1	12.00	(6.40 + 5.90)/2	0.040	2.952		
		1	3.30	(5.50 + 5.50)/2	0.040	0.726		
	ROAD-11	1	15.00	(5.80 + 4.70)/2	0.040	3.150		
		1	30.00	(4.70 + 4.50)/2	0.040	5.520		
		1	30.00	(4.50 + 4.15)/2	0.040	5.190		
		1	30.00	(4.15 + 4.60)/2	0.040	5.250		
	ROAD FROM 2-7	1	37.40	(4.80 + 5.30)/2	0.040	7.555		
		1	30.00	(5.30 + 4.45)/2	0.040	5.850		
		1	30.00	(4.45 + 4.70)/2	0.040	5.490		
		1	35.00	(4.70 + 4.50)/2	0.040	6.440		
		1	23.00	(4.30 + 4.50)/2	0.040	4.048		
		1	30.00	(4.50 + 5.00)/2	0.040	5.700		
	Total Qty					184.246	184.246	Cum

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Assistant Engineer-14
22/03/20

Assistant Executive Engineer
T Dasarahalli Sub Division
BBMP

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ಬಾಗಲಗುಂಟೆ. ಬಿ.ಬಿ.ಎಂ.ಪಿ.
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